

AMENDMENT:**In the claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

Where claims have been amended and/or canceled, such amendments and/or cancellations are done without prejudice and/or waiver and/or disclaimer to the claimed and/or disclosed subject matter, and the assignee reserves the right to claim this subject matter and/or other disclosed subject matter in a continuing application.

Claim Listing:

Claim 1. (cancelled)

Claim 2. (Currently amended) An apparatus comprising:

a ~~first-transmitter operable~~ to transmit a first pulse position modulation signal in a first frequency channel and a second pulse position modulation signal in a second frequency channel, wherein said first frequency channel is different than said second frequency channel; and

~~a second transmitter operable to transmit a second pulse position modulation signal in a second frequency channel; and~~

an encoder operable to at least in part encode data in the first pulse position modulation signal and/or the second pulse position modulation signal.

Claim 3. (Currently amended) The apparatus of claim 2, wherein the encoder is further ~~operable~~ to at least in part encode the data by alternating between the first pulse position modulation signal and/or the second pulse position modulation signal.

Claim 4. (Currently amended) The apparatus of claim 2, wherein the encoder is further ~~operable~~ to at least in part encode the data in a respective amplitude component of the first pulse position modulation signal and/or the second pulse position modulation signal.

Claim 5. (Previously Presented) The apparatus of claim 2, wherein the data comprises a packet.

Claim 6. (Previously Presented) The apparatus of claim 5, wherein the packet comprises a header.

Claim 7. (Currently amended) The apparatus of claim 2, wherein the encoder is further ~~operable~~ to at least in part encode the data in a time difference between the first pulse position modulation signal and/or the second pulse position modulation signal.

Claim 8. (Currently amended) The apparatus of claim 2, ~~and further comprising~~wherein:

~~a third~~ said transmitter is further ~~operable~~ to transmit a third pulse position modulation signal in a third frequency channel and a fourth pulse position modulation signal in a fourth frequency channel;
and

~~a fourth transmitter operable to transmit a fourth pulse position modulation signal in a fourth frequency channel; and~~

wherein the encoder is further ~~operable~~ to encode data at least in part in the third pulse position modulation signal and/or the fourth pulse position modulation signal.

Claim 9. (Currently amended) The apparatus of claim 8, wherein the encoder is further ~~operable~~ to at least in part encode the data by alternating between the third pulse position modulation signal and/or the fourth pulse position modulation signal.

Claim 10. (Currently amended) The apparatus of claim 8, wherein the encoder is ~~operable~~ to at least in part encode the data in a respective amplitude component of the third pulse position modulation signal and/or the fourth pulse position modulation signal.

Claim 11. (Previously Presented) The apparatus of claim, 8 wherein the data comprises a packet.

Claim 12. (Previously Presented) The apparatus of claim 11, wherein the packet comprises a header.

Claim 13. (Currently amended) The apparatus of claim 8, wherein the encoder is further operable to at least in part encode the data in a time difference between the third pulse position modulation signal and the fourth pulse position modulation signal.

Claim 14. (Currently amended) The apparatus of claim 8, wherein the encoder is operable to at least in part encode the data by alternating between the first pulse position modulation signal, the second pulse position modulation signal, the third pulse position modulation signal, and/or the fourth pulse position modulation signal.

Claim 15. (Currently amended) A system comprising:

a computing device;

~~a first transmitter operable to transmit a first pulse position modulation signal in a first frequency channel and a second pulse position modulation signal in a second frequency channel, wherein said first frequency channel is different than said second frequency channel; and~~

~~a second transmitter operable to transmit a second pulse position modulation signal in a second frequency channel; and~~

an encoder operable to communicate with the computing device and operable to at least in part encode data in the first pulse position modulation signal and/or the second pulse position modulation signal.

Claim 16. (Currently amended) The system of claim 15, wherein the encoder is operable to at least in part encode the data by alternating between the third pulse position modulation signal and the fourth pulse position modulation signal.

Claim 17. (Currently amended) The system of claim 15, wherein the encoder is operable to at least in part encode the data in a respective amplitude component of the first pulse position modulation signal and/or the third pulse position modulation signal.

Claim 18. (Previously Presented) The system of claim 15, wherein the data comprises a packet.

Claim 19. (Previously Presented) The system of claim 18, wherein the packet comprises a header.

Claim 20. (Currently amended) The apparatus of claim 15, wherein the encoder is further operable to at least in part encode the data in a time difference between the first pulse position modulation signal and the second pulse position modulation signal.

Claim 21. (Currently amended) The system of claim 15 further comprising:

- a first receiver operable to receive a third pulse position modulation signal in a first frequency channel;

- a second receiver operable to receive a fourth pulse position modulation signal in a second frequency channel; and

- a decoder operable to decode the third pulse position modulation signal and/or the fourth pulse position modulation signal into data.

Claim 22. (Currently amended) The system of claim 21, and further comprising:

- a second computing device;

- a third transmitter operable to transmit a fifth pulse position modulation signal in a first frequency channel;

- a fourth transmitter operable to transmit a sixth pulse position modulation signal in a second frequency band; and

a second encoder ~~operable~~ to communicate with the second computing device and ~~operable~~ to at least in part encode data in the fifth pulse position modulation signal and/or the sixth pulse position modulation signal.

Claim 23. (Currently amended) The system of claim 22, wherein the second encoder is further ~~operable~~ to at least in part encode the data in a time difference between the fifth pulse position modulation signal and the sixth pulse position modulation signal.

Claim 24. (Currently amended) A method comprising:

transmitting a first pulse position modulation signal in a first frequency channel;

transmitting a second pulse position modulation signal in a second frequency channel, wherein said first frequency channel is different that said second frequency channel; and

encoding data at least in part into the first pulse position modulation signal and/or the second pulse position modulation signal.

Claim 25. (Previously Presented) The method of claim 24, wherein said encoding data comprises encoding the data at least in part into an amplitude component of the first pulse position modulation signal.

Claim 26. (Previously Presented) The method of claim 24, wherein said encoding data comprises at least in part encoding the data by alternating between encoding the data into the first pulse position modulation signal and the second pulse position modulation signal.

Claim 27. (Previously Presented) The method of claim 24, and further comprising encoding at least a portion of the data at least in part into a time difference between the first pulse position modulation signal and the second pulse position modulation signal.

Claims 28-29. (Cancelled).

Claim 30. (Currently amended) A method comprising:

encoding a first portion of data;

transmitting the encoded first portion of data at least in part in a first pulse position modulation signal in a first frequency channel;

encoding a second portion of data at least in part while transmitting the first portion of data; and transmitting the encoded second portion of data at least in part in a second pulse position modulation signal in a second frequency channel, wherein said first frequency channel is different that said second frequency channel.

Claim 31. (Previously Presented) The method of claim 30, wherein encoding the first portion of data comprises encoding the first portion of data at least in part into an amplitude component of the first pulse position modulation signal.

Claim 32. (Previously Presented) The method of claim 31, wherein encoding the second portion of data further comprises encoding the second portion of data at least in part into an amplitude component of the second pulse position modulation signal.

Claim 33. (Previously Presented) The method of claim 30, further comprising encoding a third portion of data at least in part into a time difference between the first pulse position modulation signal and the second pulse position modulation signal.

Claim 34. (Currently amended): A system comprising:

a ~~first~~ transmitter for transmitting data in a first pulse position modulation signal in a first frequency channel and/or transmitting data in a second pulse position modulation signal in a second

frequency channel, wherein said first frequency channel is different that said second frequency channel; and

~~a second transmitter for transmitting data in a second pulse position modulation signal in a second frequency channel; and~~

an encoder for converting data at least in part into an electromagnetic form for transmission by the first and/or second transmitter.

Claim 35. (Currently amended) The system of claim 34, and further comprising:

a ~~first~~ receiver for receiving a third portion of data in a third pulse position modulation signal in the first frequency channel and receiving a fourth portion of data in a fourth pulse position modulation signal in the second frequency channel; and

~~a second receiver for receiving a fourth portion of data in a fourth pulse position modulation signal in the second frequency channel; and~~

a decoder for converting the third pulse position modulation signal and/or the fourth pulse position modulation signal into the third portion of data and/or the fourth portion of data, respectively.

Claim 36. (Currently amended): A system comprising:

a first computing device;

a ~~first~~ transceiver ~~operable to communicate with said first computing device and operable to~~ transmit and/or receive a first portion of data at least in part in a first pulse position modulation signal in a first frequency channel and/or a second portion of data at least in part in a second pulse position modulation signal in a second frequency channel, wherein said first frequency channel is different that said second frequency channel.

Claim 37. (Currently amended) The system of claim 36, and further comprising:

a second computing device; and

a second transceiver ~~operable~~ to communicate with said second computing device and ~~operable~~ to transmit and/or receive a third portion of data at least in part in a third pulse position modulation signal in the first frequency channel and/or a fourth portion of data at least in part in a fourth pulse position modulation signal in the second frequency channel, wherein said third frequency channel is different than said fourth frequency channel.

Claim 38-53 (Cancelled).

Claim 54. (Currently amended) An apparatus comprising:

a ~~plurality of transmitters~~ transmitter ~~operable~~ to transmit a plurality of pulse position modulation signals, the plurality of pulse position modulation signals having respective frequency channels, wherein at least one of said respective frequency channels is different from one other of said respective frequency channels; and

an encoder ~~operable~~ to encode data at least in part into the plurality of pulse position modulation signals.

Claim 55-63 (Cancelled)